

Application No.: 10/618,145

Amendment dated: October 24, 2005

Reply to Office Action dated: August 22, 2005

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A slider, comprising:

a magnetic head coupled to the slider, the magnetic head having a first set of electrical pads to read data from a magnetic storage medium and a second set of electrical pads to write data to the magnetic storage medium;

a charging electrical pad coupled to the slider ~~separate from the magnetic head during a wafer fabrication process~~ magnetic head; and

a charging electrical conductor coupled to the electrical pad to apply an electrical charge to the magnetic head to create an electrostatic force to adjust the flying height of the slider.

2. (Original) The slider of claim 1, wherein the charging electrical pad is coupled to a trailing edge of the slider.

3. (Cancelled)

4. (Original) The slider of claim 1, wherein the slider is coupled to a suspension.

5. (Original) The slider of claim 4, wherein the slider is electrically isolated from the suspension.

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6. (Original) The slider of claim 5, wherein the slider is coupled to the suspension using an adhesive with a high electrical resistance.
7. (Original) The slider of claim 1, wherein the slider is connected to an electronic feedback system, the electronic feedback system to monitor an environmental condition of the slider.
8. (Original) The slider of claim 7, wherein the charging electrical conductor is connected to the electronic feedback system, the charging electrical conductor applying the electrical charge based upon a flying height of the slider.
9. (Original) The slider of claim 7, wherein the charging electrical conductor is connected to the electronic feedback system, the charging electrical conductor applying the electrical charge based upon a surrounding temperature of the slider.
10. (Original) The slider of claim 1, wherein the electrical charge ranges between 0.1 –5 volts.
11. (Currently Amended) A system, comprising:
 - a magnetic storage medium;
 - a suspension;

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a slider coupled to the suspension;

a magnetic head coupled to the slider, the magnetic head having a first set of electrical pads to read data from the magnetic storage medium and a second set of electrical pads to write data to the magnetic storage medium;

a charging electrical pad coupled to the magnetic head ~~slider separate from the magnetic head during a wafer fabrication process;~~ and

a charging electrical conductor coupled to the electrical pad to apply an electrical charge to the magnetic head to create an electrostatic force to adjust the flying height of the slider.

12. (Original) The system of claim 11, wherein the charging electrical pad is coupled to a trailing edge of the slider.

13. (Cancelled)

14. (Original) The system of claim 11, wherein the slider is electrically isolated from the suspension.

15. (Original) The system of claim 11, wherein the slider is coupled to the suspension using an adhesive with a high electrical resistance.

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16. (Original) The system of claim 11, wherein the slider is connected to an electronic feedback system, the electronic feedback system to monitor an environmental condition of the slider.

17. (Original) The system of claim 16, wherein the charging electrical conductor is connected to the electronic feedback system, the charging electrical conductor applying the electrical charge based upon a flying height of the slider.

18. (Original) The system of claim 16, wherein the charging electrical conductor is connected to the electronic feedback system, the charging electrical conductor applying the electrical charge based upon a surrounding temperature of the slider.

19. (Original) The system of claim 11, wherein the electrical charge ranges between 0.1 –5 volts.

20. (Currently Amended) A method, comprising:

suspending a slider with a magnetic head above a magnetic data storage medium, the magnetic head slider coupled to a charging electrical pad isolated electrically from a set of read electrical pads and a set of write electrical pads on the slider ~~during a wafer fabrication process~~ magnetic head;

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applying an electrical voltage to the charging electrical pad to create an electrical charge on the magnetic head slider in relation to the magnetic data storage medium to create an electrostatic force to adjust the flying height of the slider.

21. (Original) The method of claim 20, wherein the charging electrical pad is coupled to a trailing edge of the slider.
22. (Cancelled)
23. (Original) The method of claim 20, wherein the slider is coupled to a suspension.
24. (Original) The method of claim 23, wherein the slider is electrically isolated from the suspension.
25. (Original) The method of claim 23, wherein the slider is coupled to the suspension using an adhesive with a high electrical resistance.
26. (Original) The method of claim 20, further including monitoring environmental conditions of the slider.

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27. (Original) The method of claim 26, further including applying the electrical charge based upon a flying height of the slider.

28. (Original) The method of claim 26, further including applying the electrical charge based upon a surrounding temperature of the slider.

29. (Original) The method of claim 20, wherein the electrical charge ranges between 0.1 -5 volts.